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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/814,999	AUERBACH ET AL.	
	Examiner	Art Unit	
	Glenford Madamba	2451	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 March 2009.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,3-17,19-25,27-31,33-41,43-51,53-55,57-59,61-63 and 65 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1,3-17,19-25,27-31,33-41,43-51,53-55,57-59 and 61-63 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 2/6/09.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

1. This action is in response to remarks and claim amendments filed by Applicant's representative on March 23, 2009.

Response to Remarks and Amendments

1. Applicant's remarks and claim amendments filed on March 23, 2009 have been considered but are now moot in light of the new grounds of rejection provided with this action.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1, 3-14, 16-17, 19-25, 27-31, 33-38, 40-41, 43-51, 53-59, and 61-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belfiore et al, U.S. Patent Publication US 2002/0059425 A1 in view of Gross et al, U.S. Patent 5,555,346 and in

further view of Gruen et al (hereinafter Gruen), U.S. Patent Publication US 2005/0057584 A1 and Omigui, U.S. Patent Publication 2004/0230572 A1.

As per Claims 1, 25, 49 and 53, Belfiore discloses the recited feature of determining an occurrence of a condition indicating at least one transfer of an email message by an email application, wherein determining the occurrence of the condition is external to the email application [Abstract] [Fig. 1] [0006] [0015] [0018] [0020-0021 & 0023] [0054] [also Section L: Scenarios, 0241];

But while Belfiore discloses substantial features of the invention, he does not expressly disclose the recited features of identifying event data associated with the email message, compiling an email event from at least some of the event data, associating the email event with a conversation based at least in part on the event data; and storing the email event, the association with the conversation and the email message. The features are taught by Gross in a related endeavor.

Gross discloses as his invention an event driven and conditional rule based mail messaging system which can be transparently implemented for use in electronic mail applications. A rule mechanism is implemented having a "When-If-Then" event-driven, conditional, action-invoking paradigm or "triplet" which permits definition of a repertoire of events considered to be significant events upon which to trigger actions in the electronic mail messaging system. Each particular 'event' may be associated with a

specific mail message and/or rules to promote efficient mapping of messages, events and rules so that only rules associated with a specific event are invoked upon occurrence of the event. Only relevant rules, i.e. those associated with a satisfied event, need be further processed. A graphical user interface to a structured rule editor facilitates synthesis of rules by a user via a substantially transparent rule engine. A modular architecture for the structured rule editors effects an extensible and portable facility invoking selected rule scripting language to implement various functions in the context of various electronic mail messaging environments [Abstract]. In particular, Gross discloses the recited features of identifying event data associated with the email message (e.g., New Message Event & Message UID) [Abstract] [Figs. 3a-c], compiling an email event from at least some of the event data (e.g. persistent event queue) [Figs. 3a-c, 8, & 9], and storing the email event, the association with the conversation and the email message (message store) [Fig. 11a].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to combine and/or modify Belfiore's invention with the additional features of identifying event data associated with the email message, compiling an email event from at least some of the event data, associating the email event with a conversation based at least in part on the event data; and storing the email event, the association with the conversation and the email message, as disclosed by Gross, for the motivation of providing a flexible, efficient, event-driven and conditional rule based system which can be transparently implemented for use, e.g., in electronic mail applications [Abstract] [col 2, L35-41].

Further, while the combination of Belfiore and Gross discloses substantial features of the invention, as above, the additional recited features of the method further comprising determining based at least in part on the event data that the email event is related to a first conversation comprising a thread of related email messages is disclosed by Gruen in a related endeavor.

Gruen discloses as his invention an improved inbox or viewer for electronic mail which allows for greater integration of functions to enhance usability and productivity. The inventive electronic mail inbox of the present invention is based on the principles of: 1) bring all communications together into one place; 2) help focus on what's important; 3) find the information and people needed; and 4) keep things moving forward over time [Abstract] [0010]. In particular, Gruen expressly discloses the additionally recited features of the method further comprising determining based at least in part on the event data that the email event is related to a first conversation comprising a thread of related email messages (Gruen: i.e., "*Electronic Mail Document Conversation Thread*") [0005] [0012-0013] (Conversation Thread Tree / Hierarchy) [00525] [0054] [Figs. 6a-b, 7, & 8a-d].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify the combination of Belfiore and Gross with the above said additional feature, as disclosed by Gruen, for the motivation of providing electronic mail tools which facilitate greater efficiency in viewing, processing and responding to electronic mail [0007-0009].

Additionally, with respect to the claim, while Belfiore, Gross, and Gruen disclose substantial features of the invention, they do not expressly disclose the recited features of “*analyzing a time gap between the email event and the email messages in the first conversation; and (a) responsive to the time gap being less than a certain amount of time, associating the email event with the first conversation; and storing the email event, the association with the first conversation, and the email message*”; and (b) “*responsive to the time gap exceeding the certain amount of time, associating the email event with a new conversation; and storing the email event, the association with the new conversation (second conversation), and the email message*”. The features are disclosed by Omigui ‘572 in a related endeavor.

Omigui ‘572 discloses as his invention an integrated implementation framework for knowledge retrieval, management, capture, sharing, discovery, delivery and presentation, and wherein the system is responsible for maintaining ‘semantic information’. The invention of Omigui ‘572 expressly discloses ‘improvements’ to the “Semantically integrated Knowledge Retrieval, Management, Delivery and Presentation System” of Omigui ‘136 (co-pending application 10/179651, Publication No. 2003/0126136 A1), the disclosure of which is fully incorporated by reference by Omigui ‘572. As part of his invention, Omigui ‘136 discloses the capture, management, retrieval, sharing and presentation of ‘objects’ in accordance with ‘context’ and/or ‘time-Sensitive’ semantic information. The ‘improvements’ by Omigui ‘572 include features and enhancements, such as Entities, Profiles and *Semantic Threads*.

Specifically, Omigui '572 discloses the recited features of analyzing a time gap between the email event and the email messages in the first conversation; and (a) responsive to the time gap *being less than* a certain amount of time, associating the email event with the first conversation; and storing the email event, the association with the first conversation, and the email message; and (b) responsive to the time gap *exceeding* the certain amount of time, associating the email event with a new conversation; and storing the email event, the association with the new conversation (second conversation), and the email message. [Omigui '572: 0284-0286]. With respect to the above cited portions of Omigui '572, Omigui '572 expressly discloses a *time-sensitive semantic* query for a filtering *rule* for managed objects (e.g., email objects 1-N), [0356-0361], such as querying / filtering for "all objects received in the last N minutes", as well as a 'cap' on the number of objects [0286] [0603]. Omigui '572 also expressly teaches and discloses 'Semantic Threads Specification' for the Information Nervous System of his invention, wherein 'semantic threads' are objects in the Knowledge Information System (KIS) semantic network that represent threads of annotations or *conversations* [1190]. Omigui '572 also specifically discloses 'Semantic Thread Conversations' wherein new email objects may be 'added' to one or more threads [1195-1200] [1203-1207].

It would thus be obvious to one of ordinary skill in the art to modify the combination of Belfiore, Gross and Gruen with the above features, as disclosed by Omigui '572 for the motivation of providing an improved system that maintains 'semantic information'.

Claims 49 and 53 are likewise rejected on the same basis as claims 1 and 25, since they recite the same features and are distinguished only by their statutory category.

As per Claims 3 and 27, Belfiore discloses the method of claim 1, wherein the at least one transfer comprises receiving the email message [0054] [0087] [0111] [0133-0134] [0193].

As per Claims 4 and 28, Belfiore discloses the method of claim 1, wherein the at least one transfer comprises sending the email message [0006] [0062] [0171][also Section G. Messaging [0143] (e.g. email)] [0194].

As per Claims 5 and 29, Belfiore discloses the method of claim 1, wherein the email application comprises a client-based email application [Fig. 1] [0047] [0143].

As per Claims 6 and 30, Belfiore discloses the method of claim 1, wherein the email application comprises a network-based email application [Fig. 1] [0047] [0143].

Art Unit: 2451

As per Claims 7 and 31, Belfiore discloses the method of claim 1, wherein the email application comprises a client-based email application and a network-based email application [Fig. 1] [0047] [0143].

As per Claims 9 and 33, Belfiore discloses the method of claim 1, wherein determining the occurrence of the condition comprises determining if files associated with the email application have been updated [0018] [0079-0080] (e.g. Update & Notification Services).

As per Claims 10 and 34, Belfiore discloses the method of claim 1, wherein determining the occurrence of the condition comprises determining if an email related operating system condition has occurred [0143] [0244] [0267] (e.g. related messages such as voice and text/email messages).

As per Claims 11 and 35, Belfiore discloses the method of claim 10, wherein the operating system condition comprises an email icon output on a display associated with a client device [0006].

As per Claims 12 and 36, Belfiore discloses the method of claim 10, wherein the operating system condition comprises an email message box output on a display associated with a client device [0070] [0086] [0143].

As per Claims 13 and 37, Belfiore discloses the method of claim 10, wherein the operating system condition comprises determining metadata for an email indicator associated with the email message displayed in the email application [0155-0156] [0233].

As per Claims 14 and 38, Belfiore discloses the method of claim 1, wherein the email application comprises a network-based email application and determining the occurrence of the condition comprises analyzing a web page associated with the network-based email application [0007-0008] [0194].

As per Claims 16 and 40, Belfiore discloses the method of claim 1, wherein determining the occurrence of the condition comprises determining an email protocol [0173] and an email server based on analysis of settings associated with the email application or network traffic (e.g. system/application settings) [0114].

As per Claims 17 and 41, Belfiore discloses the method of claim 16, further comprising periodically polling the email server for new email messages [0020].

Art Unit: 2451

As per Claims 19 and 43, Belfiore discloses the method of claim 1, wherein determining based at least in part on the event data that the email event is related to a first conversation comprises:

determining if an existing conversation relevant to the email event exists [0102] [0105] [0111] [0267];

As per Claims 20 and 44, Belfiore discloses the method of claim 19, wherein determining if an existing conversation relevant to the email event exists comprises an analysis of the event data associated with the email event [0102] [0105] [0111] [0267] [also Section E. Events, 0119, 0127, 0133-0134].

As per Claims 21 and 45, Belfiore discloses the method of claim 20, wherein the analysis of the event data comprises analysis of one or more of email message subject, date, content, sender and recipients [0023] [0073] [0111] [0127] [0213].

As per Claims 22 and 46, Belfiore discloses the method of claim 19, wherein determining if an existing conversation relevant to the email event exists comprises determining a conversation ID associated with the email message [also Section E. Events, 0119, 0127, 0133-0134] (i.e. Global ID) [0201].

As per Claims 23 and 47, Belfiore discloses the method of claim 1, wherein event data comprises at least one of sender data, a date and time associated with the event, and content from the email message [0023] [0073] [0111] [0127] [0213].

As per Claims 24 and 48, Belfiore discloses the method of claim 1, wherein event data comprises a conversation ID (i.e. Global ID) [0201].

As per Claims 50 and 54, Belfiore discloses the method of claim 49, wherein the email application comprises a client-based email application [Fig. 1] [0047] [0143].

As per Claims 51 and 55, Belfiore discloses the method of claim 49, wherein the email application comprises a network-based email application [Fig. 1] [0047] [0143].

As per Claims 57 and 61, Belfiore in view of Gross and in further view of Gruen discloses the method of claim 1, wherein determining based at least in part on the event data that the email event is related to a first conversation comprises analyzing a message body of the email message to determine a topic of the email message.

While the combination of Belfiore and Gross discloses substantial features of the invention, as above, the additional recited feature of the method wherein associating the email event with the conversation comprises analyzing a message body of the email

message to determine a topic of the email message is disclosed by Gruen in a related endeavor.

Gruen discloses as his invention an improved inbox or viewer for electronic mail which allows for greater integration of functions to enhance usability and productivity. The inventive electronic mail inbox of the present invention is based on the principles of: 1) bring all communications together into one place; 2) help focus on what's important; 3) find the information and people needed; and 4) keep things moving forward over time [Abstract] [0010]. In particular, Gruen expressly discloses the additionally recited feature of the method wherein associating the email event with the conversation comprises analyzing a message body of the email message to determine a topic of the email message (Gruen: e.g., "Search Message Body for Permutation" 987) [Fig. 8d].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify the combination of Belfiore and Gross with the above said additional feature, as disclosed by Gruen, for the motivation of providing electronic mail tools which facilitate greater efficiency in viewing, processing and responding to electronic mail [0007-0009].

As per Claims 58 and 62, Belfiore in view of Gross and in further view of Gruen discloses the method of claim 1, wherein determining based at least in part on the event data that the email event is related to a first conversation comprises analyzing an email attachment of the email message to determine a topic of the email message.

While the combination of Belfiore and Gross discloses substantial features of the invention, as above, the additional recited feature of the method wherein associating the email event with the conversation comprises analyzing an email attachment of the email message to determine a topic of the email message is disclosed by Gruen in a related endeavor.

Gruen discloses as his invention an improved inbox or viewer for electronic mail which allows for greater integration of functions to enhance usability and productivity. The inventive electronic mail inbox of the present invention is based on the principles of: 1) bring all communications together into one place; 2) help focus on what's important; 3) find the information and people needed; and 4) keep things moving forward over time [Abstract] [0010]. In particular, Gruen expressly discloses the additionally recited feature of the method wherein associating the email event with the conversation comprises analyzing an email attachment of the email message to determine a topic of the email message (Gruen: e.g., "scanning of document content or any of its attachments) [Fig. 8a] [0053].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify the combination of Belfiore and Gross with the above said additional feature, as disclosed by Gruen, for the motivation of providing electronic mail tools which facilitate greater efficiency in viewing, processing and responding to electronic mail [0007-0009].

As per Claims 59 and 63, Belfiore in view of Gross and in further view of Gruen discloses the method of claim 1, wherein email messages in the thread of related email each have at least some subject text in common.

While the combination of Belfiore and Gross discloses substantial features of the invention, as above, the additional recited feature of the method wherein email messages in the thread of related email each have at least some subject text in common is disclosed by Gruen in a related endeavor.

Gruen discloses as his invention an improved inbox or viewer for electronic mail which allows for greater integration of functions to enhance usability and productivity. The inventive electronic mail inbox of the present invention is based on the principles of: 1) bring all communications together into one place; 2) help focus on what's important; 3) find the information and people needed; and 4) keep things moving forward over time [Abstract] [0010]. In particular, Gruen expressly discloses the additionally recited feature of the method wherein email messages in the thread of related email each have at least some subject text in common (Gruen: e.g., "Subject: Apples") [Fig. 6a].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify the combination of Belfiore and Gross with the above said additional feature, as disclosed by Gruen, for the motivation of providing electronic mail tools which facilitate greater efficiency in viewing, processing and responding to electronic mail [0007-0009].

As per Claims 65 and 66, Belfiore in view of Gross and in further view of Gruen and Omigui '5572 discloses the method of claim 1, further comprising associating the email event with a second conversation related to the first conversation, the second conversation comprising a second thread of related email messages that lacks the email event.

While the combination of Belfiore and Gross discloses substantial features of the invention, as above, Gruen specifically discloses the feature of the method wherein the first thread includes the email event and the second thread is absent the email event is disclosed by Gruen (Gruen: e.g., "data associated with an event may vary in detail and scope according to designer preferences, but will typically include 'start' and 'end' times, topic, type {i.e., electronic mail content / threads}) [Abstract].

However, while Belfiore, Gross, and Gruen disclose substantial features of the invention, as above, they do not expressly disclose the recited features of the method further comprising "associating the email event with a second conversation related to the first conversation" wherein a second thread of email messages comprising the second conversation lacks the email event. The features are disclosed by Omigui '572 in a related endeavor.

Omigui '572 discloses as his invention an integrated implementation framework for knowledge retrieval, management, capture, sharing, discovery, delivery and presentation, and wherein the system is responsible for maintaining 'semantic information'. The invention of Omigui '572 expressly discloses 'improvements' to the

“Semantically integrated Knowledge Retrieval, Management, Delivery and Presentation System” of Omigui ‘XXX (co-pending application 10/179651), the disclosure of which is fully incorporated by reference by Omigui ‘572. As part of his invention, Omigui ‘XXX discloses the capture, management, retrieval, sharing and presentation of ‘objects’ in accordance with ‘context’ and/or ‘time-Sensitive’ semantic information. The ‘improvements’ by Omigui ‘572 include features and enhancements, such as Entities, Profiles and *Semantic Threads*.

Specifically, Omigui ‘572 discloses the recited features of the method further comprising “associating the email event with a second conversation related to the first conversation” wherein a second thread of email messages comprising the second conversation lacks the email event [Omigui ‘572: 1202-1207]. With respect to the above cited portions of Omigui ‘572, Omigui ‘572 expressly teaches and discloses ‘Semantic Threads Specification’ for the Information Nervous System of his invention, wherein ‘semantic threads’ are objects in the Knowledge Information System (KIS) semantic network that represent threads of annotations or *conversations* [1190]. Omigui ‘572 also specifically discloses ‘Semantic Thread Conversations’ wherein new email objects may be ‘added’ to one or more threads based on ‘semantic information’, such as ‘contextual’ and/or ‘time-criticality’ attributes of the email objects, as well as ‘object identifiers’ and type identifiers’ (e.g., OBJECT-TYPEID-THREAD identifier [1195-1200] [1203-1207].

It would thus be obvious to one of ordinary skill in the art to modify the combination of Belfiore, Gross and Gruen with the above features, as disclosed by

Omogui '572 for the motivation of providing an improved system that maintains 'semantic information'.

2. Claims 15 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belfiore in view of Dumais et al (hereinafter Dumais), U.S. Patent Publication US 2004/0267700 A1.

As per Claims 15 and 39, Belfiore in view of Dumais discloses the method of claim 1, wherein determining the occurrence of the condition comprises determining if a packet or packets received from a network comprises an email protocol [Dumais 0082] [Fig. 9].

While Belfiore discloses substantial features of the invention such as the method of claim 1 comprising determining the occurrence of a condition indicating at least one email message transfer by an email application, wherein determining the occurrence of the condition is external to the email application [Abstract] [Fig. 1] [0006] [0015] [0018] [0020-0021 & 0023] [0054] [also Section L: Scenarios, 0241]; identifying the email message (Protocol_824, i.e., SOAP) [Fig. 7] [0111], and 'indexing' [0203], he does not expressly disclose the feature of the method wherein determining the occurrence of the condition comprises determining if a packet or packets received from a network comprises an email protocol. The feature is disclosed by Dumais.

Dumais, in a similar endeavor, discloses as his invention a system and method providing content-access based information retrieval. A usage analyzer determines user accessed items and a content analyzer stores subsets of data corresponding to the items. An automated indexing component indexes the data subsets according to past data access patterns as determined by the usage analyzer. A search component responds to a search query, initiates a search across the indexed data [Abstract].

In particular, Dumais discloses that the present invention provides a unified index of information that a person has observed, whether it be *email*, web pages, office documents, calendar appointments, and so forth. Dumais' invention integrates disparate information sources into a single *index* that can be queried for information retrieval. Indexing happens automatically and is triggered by ongoing user activity, such as reading email messages [0005]. Dumais additionally discloses the 'storing of event data' for information content such as emails [0023-0024], and that possible communication between a client_910 and a server_930 may be in the form of a 'data packet' adapted to be transmitted between two or more computer processes [0082] [Fig. 9].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to combine Belfiore's invention with the feature of the method wherein determining the occurrence of the condition comprises determining if a packet or packets received from

a network comprises an email protocol, as disclosed by Dumais, for the motivation of facilitating access-based retrieval of information or data [0001] [0021].

Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office Action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP 706.06(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenford Madamba whose telephone number is 571-272-7989. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Wallace Martin can be reached on 571-272-3440. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/John Follansbee/
Supervisory Patent Examiner, Art Unit 2451

Glenford Madamba
Examiner
Art Unit 2451